

Title (en)
PROCESS AND DEVICE FOR THE TREATMENT OF A NATURAL GAS FEED TO OBTAIN TREATED NATURAL GAS AND A FRACTION WITH C5+ HYDROCARBONS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR BEHANDLUNG EINES ERDGAS FEEDS ZUR ERZEUGUNG VON BEHANDELTEM ERDGAS UND EINES SCHNITTES MIT C5+ KOHLENWASSERSTOFFEN

Title (fr)
PROCEDE ET INSTALLATION DE TRAITEMENT D'UN GAZ NATUREL DE CHARGE POUR OBTENIR UN GAZ NATUREL TRAITE ET UNE COUPE D'HYDROCARBURES EN C5+

Publication
EP 2411118 B1 20141001 (FR)

Application
EP 10715968 A 20100323

Priority
• FR 2010050526 W 20100323
• FR 0951941 A 20090325

Abstract (en)
[origin: WO2010109130A1] This method consists of the introduction of a load current (54) in a first tank (22), the dynamic expansion of the gas current (56) emanating from the tank (22) in a turbine (24), then its introduction into a first purification column (26). It comprises the production at the top of the first column (26) of purified gas (70) and the recovery at the bottom of the first column (26) of a liquefied bottom gas (74), which is introduced after expansion into a second column (30) for elimination of C5+ hydrocarbons. The purified top natural gas (70) from the first column (26) is reheated in a first heat exchanger (20) by heat exchange with a load gas (12). The method comprises the compression of top gas current (86) in second column (30) in a compressor (38) before it is introduced into a second separator tank (40).

IPC 8 full level
B01D 53/00 (2006.01); **C10G 5/04** (2006.01); **C10G 5/06** (2006.01); **C10L 3/10** (2006.01); **F25J 3/06** (2006.01)

CPC (source: EP US)
B01D 53/002 (2013.01 - EP US); **C10G 5/06** (2013.01 - EP US); **C10L 3/10** (2013.01 - EP US); **F25J 3/0209** (2013.01 - US); **F25J 3/0238** (2013.01 - US); **F25J 3/0242** (2013.01 - US); **B01D 2256/24** (2013.01 - EP US); **B01D 2257/702** (2013.01 - EP US); **C10G 2300/1025** (2013.01 - EP US); **C10G 2300/4012** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2010109130 A1 20100930; AR 075934 A1 20110504; AU 2010227410 A1 20111020; AU 2010227410 B2 20160303; BR PI1009851 A2 20160315; BR PI1009851 B1 20191008; CA 2756632 A1 20100930; CA 2756632 C 20170704; CN 102438726 A 20120502; CN 102438726 B 20150708; CY 1115827 T1 20170125; DK 201070126 A 20100926; DK 2411118 T3 20150105; EP 2411118 A1 20120201; EP 2411118 B1 20141001; ES 2525818 T3 20141230; FR 2943683 A1 20101001; FR 2943683 B1 20121214; JP 2012521537 A 20120913; JP 5636036 B2 20141203; KR 101896119 B1 20181024; KR 20120008491 A 20120130; PT 2411118 E 20141128; RU 2011142916 A 20130427; RU 2533462 C2 20141120; US 10744447 B2 20200818; US 2010242536 A1 20100930

DOCDB simple family (application)
FR 2010050526 W 20100323; AR P100100939 A 20100325; AU 2010227410 A 20100323; BR PI1009851 A 20100323; CA 2756632 A 20100323; CN 201080022238 A 20100323; CY 141101053 T 20141217; DK 10715968 T 20100323; DK PA201070126 A 20100325; EP 10715968 A 20100323; ES 10715968 T 20100323; FR 0951941 A 20090325; JP 2012501352 A 20100323; KR 20117022644 A 20100323; PT 10715968 T 20100323; RU 2011142916 A 20100323; US 73154910 A 20100325